BASF Former Ciba-Geigy Facility 180 Mill Street, Cranston, Rhode Island

Corrective Measures Implementation Work Plan Original: September 8, 2017; Revision 1: February 23, 2018; Revision 2: March 22, 2018; Final: April 30, 2018; Revision 3: May 13, 2019.

APPENDIX E FINAL REMEDIAL DESIGN





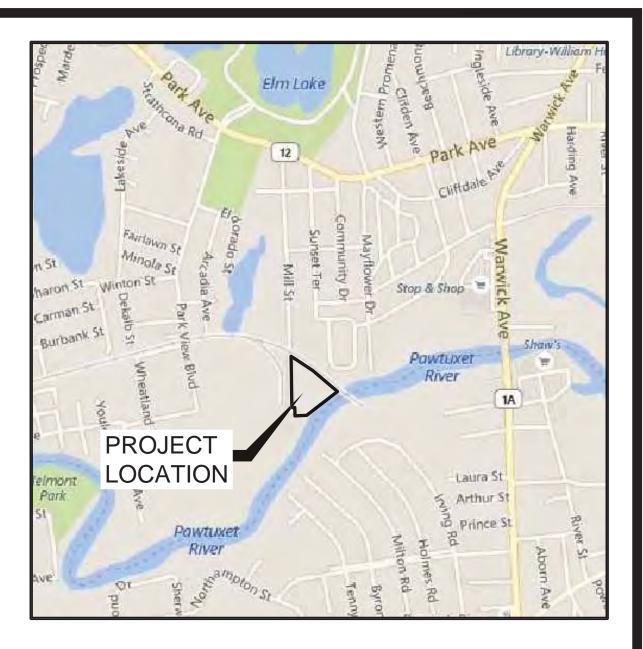
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SITE DETAILS

SITE DETAILS

PLANT DETAILS, NOTES, & SCHEDULE (ALT.)

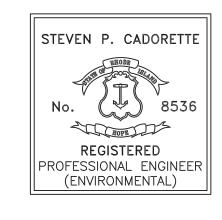


LOCUS MAP

BASF CORPORATION FORMER CIBA-GEIGY FACILITY

180 MILL STREET CRANSTON, RHODE ISLAND

REMEDIATION AND RESTORATION OF PLAT 4 LOT 1102



SUBMISSION
SEPTEMBER 1, 2017
REVISED SUBMISSION
NOVEMBER 28, 2017
REVISED SUBMISSION
FEBRUARY 22, 2018
REVISED SUBMISSION
MAY 13, 2019







EXISTING WELL STATUS

	EXISTING WELL STATUS	<u>-</u>	
WELL LABEL	ACTION	Original Height Above Ground (in)*	Height Adjustment to maintain 24' clearance above cap (in)**
MW-20S	CLOSE	-	-
MW-10S	CLOSE	-	<u>-</u>
MW-10D	CLOSE	-	-
MW-12S	PROTECT/REMAIN IN PLACE	40	8
MW-12D	PROTECT/REMAIN IN PLACE	26	22
P-4S	CLOSE	-	-
P-5S	CLOSE	-	-
MW-4S	PROTECT/REMAIN IN PLACE	21	27
MW-4D	PROTECT/REMAIN IN PLACE	22	26
MW-14D	PROTECT/REMAIN IN PLACE	30	18
MW-14S MW-302-I	REMOVED PROTECT/REMAIN IN PLACE	22	
MW-302S	PROTECT/REMAIN IN PLACE	26	22
MW-13S	PROTECT/REMAIN IN PLACE	32	16
P-13D	CLOSE	-	-
P-3S	CLOSE	-	<u> </u>
MW-3S	PROTECT/REMAIN IN PLACE	30	18
P-38S	CLOSE	-	-
P-32S	CLOSE	_	_
P-32D	CLOSE	-	<u>-</u>
PW-110	CLOSE	-	<u>-</u>
P-37S	CLOSE	-	<u>-</u>
MW-34S	PROTECT/REMAIN IN PLACE	31	17
MW-34D	PROTECT/REMAIN IN PLACE	34	14
MW-1D	PROTECT/REMAIN IN PLACE	27	21
MW-1S	PROTECT/REMAIN IN PLACE	32	16
P-001S	CLOSE	-	-
MW-21S	CLOSE	_	-
P-30D	CLOSE	_	-
MW-30D	DAMAGED	_	-
MW-102D	PROTECT/REMAIN IN PLACE	27	21
MW-102S	PROTECT/REMAIN IN PLACE	26	22
P-34S	CLOSE	-	-
P-36S	CLOSE	_	-
RC-2	CLOSE	-	-
PW-130	CLOSE	-	-
P-33S	CLOSE	-	-
P-33D	CLOSE	-	-
WPT-07	PROTECT/REMAIN IN PLACE		-
MP-1IS	PROTECT/REMAIN IN PLACE	27	21
MP-1D	PROTECT/REMAIN IN PLACE	22	26
WPT-06	PROTECT/REMAIN IN PLACE		-
P-35S	CLOSE	-	-
MW-31S	PROTECT/REMAIN IN PLACE	-	-
MW-31D	PROTECT/REMAIN IN PLACE	-	-
MW-101D	PROTECT/REMAIN IN PLACE	25	23
MW-101S	PROTECT/REMAIN IN PLACE	27	21
MP-2IS	PROTECT/REMAIN IN PLACE	30	18
MP-2D	PROTECT/REMAIN IN PLACE	30	18
PW-120	PROTECT/REMAIN IN PLACE	14	34
WPT-05	PROTECT/REMAIN IN PLACE		
AS-1	PROTECT/REMAIN IN PLACE	30	18
AS-2	PROTECT/REMAIN IN PLACE	30	18
SVE-1	PROTECT/REMAIN IN PLACE	21	27
MP-3IS	PROTECT/REMAIN IN PLACE	30	18
MP-3D	PROTECT/REMAIN IN PLACE	30	18
MW-22S	PROTECT/REMAIN IN PLACE	40	8
WPT-01	PROTECT/REMAIN IN PLACE		
MW-100D	PROTECT/REMAIN IN PLACE	26	22
MW-100S	PROTECT/REMAIN IN PLACE	29	19
WPT-02	PROTECT/REMAIN IN PLACE		
WPT-03	PROTECT/REMAIN IN PLACE		
WPT-04	PROTECT/REMAIN IN PLACE		
MW-2S	PROTECT/REMAIN IN PLACE	40	8
P-002D	PROTECT/REMAIN IN PLACE	21	27
P-2S	PROTECT/REMAIN IN PLACE	21	27
PZ-01D	PROTECT/REMAIN IN PLACE	-	-
PZ-01S	PROTECT/REMAIN IN PLACE	-	-
PZ-02D	PROTECT/REMAIN IN PLACE	-	<u>-</u>
PZ-02S	PROTECT/REMAIN IN PLACE	-	-
PZ-03D	PROTECT/REMAIN IN PLACE	i l	

* As measured by GRA on 8/29/17. Some wells that could not be located in the field were either

determined through historical AECOM reports (SRI) or estimated.

** Assuming 2-foot (24-inch) cap throughout site.

SURVEY NOTES

- 1. PLAN PREPARED BY USING THE ALTA/ACSM LAND TITLE SURVEY DATED OCTOBER 4, 2012 PREPARED BY BOCK & CLARK CORP.
- 2. TOPOGRAPHIC CONTOURS ON THE PLAN ARE FROM AN UNTITLED PLAN INCLUDED IN THE BASF REQUEST FOR PROPOSAL THAT REFERENCES A FIELD SURVEY PERFORMED BY DIPRETE RESIDENT ENGINEERING IN SEPTEMBER 2014. VERTICAL DATUM IS NAVD 88.

GENERAL NOTES

- 1. REFERENCE IS MADE TO THE LATEST EDITIONS OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (AMENDED AUGUST 2013, INCLUDING ALL SUBSEQUENTLY ISSUED SUPPLEMENTS, REVISIONS, AND ADDENDA) AND THE "RHODE ISLAND STANDARD DETAILS" (1998, INCLUDING ALL SUBSEQUENT REVISIONS, ADDITIONS AND DELETIONS ISSUED BY THE RIDOT). ALL PROJECT SITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE STANDARDS SET FORTH IN THESE DOCUMENTS (AND THE SUB-REFERENCES INCORPORATED THEREIN) UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
- 2. THE PROJECT LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING (THROUGH PROVISION AND PLACEMENT OF LOAM AND SEED) ANY UNPAVED AREAS OUTSIDE OF THE PROJECT LIMITS OF DISTURBANCE IMPACTED BY CONSTRUCTION OPERATIONS. ANY REQUIRED RESTORATION OUTSIDE THE PROJECT LIMITS OF DISTURBANCE SHALL BE COMPLETED TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
- 3. ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING CURBING, SIDEWALKS, PAVEMENTS, FENCES, OR OTHER SITE FEATURES TO REMAIN IN PLACE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCESS EXCAVATED PAVEMENTS, CURBING, SIDEWALKS, CURB STOPS, AND OTHER CONSTRUCTION WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL. STATE AND FEDERAL LAWS AND REGULATIONS.
- 5. ALL EXISTING PIPE, SUBSURFACE STRUCTURES, PAVEMENTS, EXCESS EXCAVATED MATERIALS AND MISCELLANEOUS MATERIALS REMOVED SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AT AN OFFSITE LOCATION.
- 6. THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATION IN A DRY CONDITION. NO SEPARATE PAYMENT OR ALLOWANCE SHALL BE MADE FOR DEWATERING.
- 7. FILL REQUIRED FOR EMBANKMENTS SHALL CONFORM TO THE REQUIREMENTS FOR COMMON BORROW SET FORTH IN SECTION M.01.01 OF THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- 8. THE CONTRACTOR SHALL PROVIDE CONTINUOUS DUST CONTROL (USING WATER OR OTHER APPROVED METHODS) FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS AND SURFACES OF BACK FILLED TRENCHES, IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS AND AS DIRECTED BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL NOT USE CALCIUM CHLORIDE FOR DUST CONTROL.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FUGITIVE DUST CONTROL TO MAINTAIN COMPLIANCE WITH THE RIDEM FUGITIVE DUST CONTROL REGULATIONS. THIS REQUIREMENT INCLUDES ANY AND ALL REQUIRED MONITORING, FIELD SCREENING, AND LABORATORY ANALYSIS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE RIDEM FUGITIVE DUST CONTROL REGULATIONS.
- 10. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED IN THE CONTRACT DOCUMENTS.
- 11. IN ACCORDANCE WITH CURRENT STATE "DIG SAFE" LAWS AND RULES, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE SYSTEM ELEMENTS AND UTILITIES (BOTH UNDERGROUND AND OVERHEAD) BEFORE ANY EXCAVATION MAY COMMENCE. THE CONTRACTOR IS ADVISED THAT (A) NOT ALL UTILITY PROVIDERS SUBSCRIBE TO THE DIG SAFE PROGRAM, AND (B) IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL POTENTIALLY AFFECTED UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO THE COMMENCEMENT OF WORK. EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY MUNICIPAL, STATE OR FEDERAL AGENCY OR AUTHORITY HAVING JURISDICTION OVER THE WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD OR UNMARKED UTILITIES (AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY) SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 12. THE CONTRACTOR IS ADVISED THAT WORK UNDER EXISTING OVERHEAD UTILITIES IS REQUIRED, AND THAT MINIMUM CLEARANCES SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. THIS MAY REQUIRE SPECIAL MEANS AND METHODS IN ORDER TO PROPERLY COMPLETE THE WORK. SHOULD THE CONTRACTOR ELECT TO RELOCATE EXISTING OVERHEAD UTILITIES, THEN THE CONTRACTOR SHALL CONDUCT ALL COORDINATION WITH THE AFFECTED UTILITY COMPANIES AND BEAR ALL COSTS ASSOCIATED WITH UTILITY RELOCATIONS NOT INCLUDED IN THE CONTRACT.
- 13. THE CONTRACTOR SHALL ADJUST ALL MONITORING WELLS, UTILITY BOXES, FRAMES, AND COVERS AS REQUIRED.

LEGEND

26.2.0

	FLOOD BOUNDARY ZONE X
	FLOOD BOUNDARY ZONE AE
	FEMA FLOODWAY BOUNDARY
	200' RIVERBANK PERIMETER
••••	APPROXIMATE RIVER EDGE
	PROPERTY LINES
	EXISTING EASEMENT
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	SILT FENCE
	LIMIT OF DISTURBANCE
	COMPOST FILTER SOCK
LABEL	EXISTING MONITORING WELL
CFS	COMPOST FILTER SOCK
DCP	REMOVE AND DISPOSE CONCRETE PAD
(# TO BE REMOVED)	REMOVE AND DISPOSE TREE
LOD	LIMIT OF DISTURBANCE
9.2.0	SILT FENCE, RI STD 9.2.0
24.3.0	CONSTRUCTION AND TEMPORARY SIGN MOUNTINGS

POLYETHYLENE DRUM WITH MARKINGS

EROSION AND SEDIMENT CONTROL NOTES

- 1. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES TO BE EMPLOYED ON THE PROJECT ARE INDICATED ON THE PLANS. CONTROL MEASURES SHALL BE FURNISHED, INSTALLED, MAINTAINED FOR THE DURATION OF CONSTRUCTION, AND SUBSEQUENTLY REMOVED, ALL IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" (UPDATED 2016), AND ANY SITE-SPECIFIC EROSION AND SEDIMENT CONTROL / POLLUTION PREVENTION PLAN INCLUDED IN THE CONTRACT DOCUMENTS.
- 2. ALL CLEARING, GRADING AND EARTHWORK ACTIVITIES SHALL REMAIN STRICTLY WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE RESTRICTED TO ACTIVITIES NECESSARY FOR COMPLETION OF THE WORK. THE CONTRACTOR SHALL ENSURE THAT ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE REMAIN UNDISTURBED AND PROTECTED FROM CONSTRUCTION IMPACTS.
- 3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, AND THE APPLICABLE CONDITIONS OF ANY REGULATORY/ENVIRONMENTAL PERMITS ISSUED FOR THE PROJECT.
- 4. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT LOCATIONS AND AREAS SHOWN ON THE PLANS AND IN ACCORDANCE WITH APPROVED SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS; HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION.
- 5. PERIMETER EROSION CONTROL BARRIERS (STAKED COMPOST FILTER SOCK, SILT FENCE, OR OTHER DEVICES AS INDICATED) SHALL BE INSTALLED IN CONTINUOUS UNINTERRUPTED RUNS AT THE LOCATIONS INDICATED ON THE PLANS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS, ALL PERIMETER EROSION CONTROL BARRIERS SHALL BE REMOVED. PRIOR TO REMOVAL OF THE DEVICES, ALL ACCUMULATED SEDIMENT AND DEBRIS TRAPPED BY THE BARRIERS SHALL BE REMOVED AND DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.
- 6. THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST ONE (1) FOOT INSIDE OF ALL PERIMETER EROSION CONTROL BARRIERS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR (OR ANY AGENT OF THE CONTRACTOR) SHALL BE IMMEDIATELY REMOVED, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS SUBSEQUENTLY IMPLEMENTED AT NO COST TO THE OWNER.
- 7. UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE FULLY STABILIZED, TRAPPED SEDIMENTS SHALL BE PERIODICALLY REMOVED FROM PERIMETER EROSION CONTROL BARRIERS. AT A MINIMUM, MATERIAL SHALL BE REMOVED ONCE THE DEPTH OF ACCUMULATED SEDIMENT REACHES SIX (6) INCHES OR ONE-HALF THE BARRIER HEIGHT, WHICHEVER IS LESS. ALL REMOVED MATERIAL SHALL BE DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.
- 8. ALL MATERIAL STOCKPILES SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE SURROUNDED BY A SECURED PERIMETER OF COMPOST FILTER SOCK.
- 9. ALL EXISTING AND CONSTRUCTED DRAINAGE SYSTEM INLETS SHALL BE PROVIDED WITH INLET PROTECTION DEVICES (FILTER BAGS/SILT SACKS, SANDBAGS, WATTLES, ETC.) AS INDICATED ON THE PLANS. ALL INLET PROTECTION DEVICES SHALL BE INSTALLED, MAINTAINED, AND CLEANED FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL STORM WATER CONTROLS ARE FULLY STABILIZED AND ONLINE, AT WHICH TIME THEY SHALL BE REMOVED AND DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.
- 10. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- 11. EROSION CONTROL DEVICES SHOULD BE INSPECTED BY THE RESIDENT ENGINEER WEEKLY AND AFTER RAINFALL EVENTS EXCEEDING ONE QUARTER INCH (1/4") IN ANY 24-HOUR PERIOD. WHERE AND WHEN REQUIRED, MAINTENANCE AND REPAIRS SHALL BE COMPLETED BY THE CONTRACTOR WITHIN 24 HOURS OF THE INSPECTION.
- 12. DENUDED/UNVEGETATED SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
- 13. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- 14. TEMPORARY SURFACE STABILIZATION TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS FIBER MESH, EROSION CONTROL BLANKETS, OR OTHER MATTING. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS DIRECTED BY THE RESIDENT ENGINEER. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 POUNDS PER ACRE (1.9-2.5 POUNDS PER SQUARE YARD). IF NEEDED, TEMPORARY SEEDING (PROVIDED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND EROSION AND SEDIMENT CONTROL GUIDANCE) MAY BE EMPLOYED TO FURTHER MINIMIZE EROSION. IN THE FLOODWAY JUTE MESH IMPREGNATED WITH WETLAND SEED MIX SHALL BE USED FOR TEMPORARY STABILIZATION MEASURES.
- 15. TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE, FREE OF SUBSOIL, STONES, ROCKS, ROOTS, BRUSH, REFUSE, CONSTRUCTION DEBRIS AND OTHER DELETERIOUS MATERIALS AND SHALL CONFORM TO SUBSECTION M.18.01 OF THE RIDOT STANDARD SPECIFICATIONS.
- 16. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES SHALL BE IN ACCORDANCE WITH RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (AMENDED AUGUST 2013, INCLUDING ALL SUBSEQUENTLY ISSUED SUPPLEMENTS, REVISIONS AND ADDENDA).
- 17. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 14 DAYS OF FINAL GRADING. PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.

JOB SPECIFIC NOTES

AND MATERIALS ACCORDINGLY.

- 1. THE CONTRACTOR SHALL ASSUME ASBESTOS CONTAINING PIPE MATERIALS FOR EXISTING SUBSURFACE PIPING INCLUDING BUT NOT LIMITED TO WATER, SEWER, DRAINAGE, AND STEAM IF THE PIPE MATERIAL TYPE IS NOT LISTED ON THE PLANS OR INDICATED AS UNKNOWN.
- UNKNOWN.

 2. THE CONTRACTOR SHOULD NOTE, THAT UNDER CERTAIN STORM EVENTS PORTIONS OF THE PROJECT CAN PERIODICALLY FLOOD TO VARYING LEVELS. IT IS THE CONTRACTORS
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE GRAVEL ACCESS ROAD DURING THE DURATION OF THE CONTRACT.
- AS-BUILT INFORMATION SHALL BE PROVIDED AS OUTLINED IN CONTRACT DOCUMENTS. THE COST OF PROVIDING AS-BUILT INFORMATION IS INCIDENTAL TO THE CONTRACT.

RESPONSIBILITY TO SCHEDULE CONSTRUCTION ACTIVITIES AND STORAGE OF EQUIPMENT

- ALL SURVEY FIELD BOOKS AND ELECTRONIC DATA SHALL BE SUBMITTED TO THE RESIDENT ENGINEER UPON COMPLETION OF THE CONTRACT INCLUDING A LISTING OF ALL STATIONS, OFFSETS AND COORDINATES.
- CONTRACTOR SHALL ASSIST THE RESIDENT ENGINEERS WITH PREPARING AND PROVIDING AN AS-BUILT PROJECT PLAN SET. THE COST OF THIS REQUIREMENT IS CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOLID AND HAZARDOUS WASTE BEING STOCKPILED, STORED, MANAGED, TRANSPORTED FOR DISPOSAL / RECYCLING, AND RECYCLED / DISPOSED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATORY REQUIREMENTS AND PROJECT SPECIFICATIONS.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THE DEWATERING SYSTEM. THE RESIDENT ENGINEER SHALL BE RESPONSIBLE FOR ALL ACTIVITIES OF THE MONITORING, SAMPLING, LAB ANALYSIS, AND SUBMITTAL REQUIREMENTS.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GROUNDWATER STORED, MANAGED, TRANSPORTED FOR DISPOSAL / RECYCLING IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATORY REQUIREMENTS AND PROJECT SPECIFICATIONS. DECONTAMINATION WASTE WATER SHALL MEET TSCA DECONTAMINATION STANDARDS OR BE TRANSPORTED TO A TSCA DISPOSAL FACILITY.
- 10. ALL EQUIPMENT DECONTAMINATION WASTE WATER SHALL BE CONTAINED AND TRANSPORTED FOR OFF-SITE DISPOSAL.

NON-COMPLIANT SOIL EXCAVATION:

- 1. THE CONTRACTOR SHALL ASSIST THE RESIDENT ENGINEER WITH THE COLLECTION OF CONFIRMATORY SOIL SAMPLES IN ACCORDANCE WITH THE APPROVED CORRECTIVE MEASURES IMPLEMENTATION WORK PLAN, AND THE INTERIM REMEDIAL MEASURES WORK PLAN.
- 2. THERE SHALL BE A TWO-WEEK PERIOD BETWEEN THE CONFIRMATORY SOIL SAMPLE COLLECTION AND THE NOTICE TO THE CONTRACTOR THAT ADDITIONAL NON-COMPLIANT SOIL EXCAVATION SHALL BE REQUIRED. THE TWO-WEEK PERIOD SHALL NOT BE CAUSE FOR THE CONTRACTOR TO CLAIM A DELAY.
- 3. THE CONTRACTOR SHALL COMMENCE WITH THE ADDITIONAL NON-COMPLIANT SOIL EXCAVATION WITHIN 10 WORKING DAYS OF RECEIVING NOTICE FROM THE RESIDENT ENGINEER THAT ADDITIONAL NON-COMPLIANT SOIL EXCAVATION IS REQUIRED.

EXCAVATED NON-COMPLIANT SOIL MANAGEMENT

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SITE SPECIFIC HEALTH AND SAFETY PLAN FOR ITS WORKERS AND SUBCONTRACTED PERSONNEL AND CERTIFYING THAT ALL OF ITS WORKERS AND SUBCONTRACTED PERSONNEL WORKING AT THE SITE HAVE MET THE APPLICABLE FEDERAL TRAINING REQUIREMENTS FOUND IN OSHA 1910.120 AND OSHA 1910.126 AND ANY OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- 2. EXCAVATED NON-COMPLIANT SOIL SHALL BE STOCKPILED ON-SITE AT THE LOCATION DESIGNATED ON THE CONTRACT PLANS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE NON-COMPLIANT SOIL EXCAVATION AREAS WHEN NO WORK IS TAKING PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRIERS INCLUDING BUT NOT LIMITED TO TEMPORARY FENCING TO SECURE THESE AREAS. AS AN ALTERNATIVE THE CONTRACTOR MAY LEAVE THE EXISTING CHAIN LINK FENCE IN PLACE TO SECURE THE NON-COMPLIANT SOIL EXCAVATION AREAS.
- THE SOIL STOCKPILE SHALL BE SAMPLED BY THE RESIDENT ENGINEER IN ACCORDANCE WITH THE OFF-SITE RECYCLING/DISPOSAL FACILITY'S REQUIREMENTS AND CHARACTERIZED FOR DISPOSAL.
- 5. THE CONTRACTOR SHALL LOAD AND HAUL ALL SOILS TO BE DISPOSED IN VEHICLES AND EQUIPMENT AS PROVIDED BY THE RESIDENT ENGINEER.
- 6. EXCAVATED NON-COMPLIANT SOILS SHALL BE TRANSPORTED BY THE RESIDENT ENGINEER FOR OFF-SITE DISPOSAL AT THE APPROVED RECYCLING/DISPOSAL FACILITY.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING ANY SOIL FROM THE ADJACENT THE ROAD WAY THAT WAS DEPOSITED AS THE RESULT OF ITS WORK AT THE END OF EACH WORK DAY.
- . THE CONTRACTOR'S TESTING OF IMPORTED COMMON BORROW AND OTHER IMPORTED SOIL FILL MATERIAL SHALL BE COMPLETED IN ACCORDANCE WITH THE IMPORTED SOIL TESTING REQUIREMENTS INCLUDED IN THE PROJECT SPECIFICATIONS.

SASF FORMER CIBA-GEIC FACILITY 180 MILL STREET RANSTON, RHODE ISLAN





R. Archibald, Inc.
vironmental Engineers
ket, Rhode Island

Gordon R. Arc

Civil and Environme

BY 112

LEGEND AND NOTES

NATE
REVISIONS

128/17 SHEET REVISED PER COMMENTS

PROJECT NO.: 1701

DATE: SEPTEMBER 1, 2017

SCALE: NONE

DRAWN BY: LBD

CHECKED BY: SPC

DRAWING NUMBER

SHEET 2 OF 17

F.\FILES\CAD\1701\Highway Plans\2017-SOUTH\1701-SOUTH NOTES AND LEGEND.dwg, 2/23/2018 8:22:09 AM, USER67

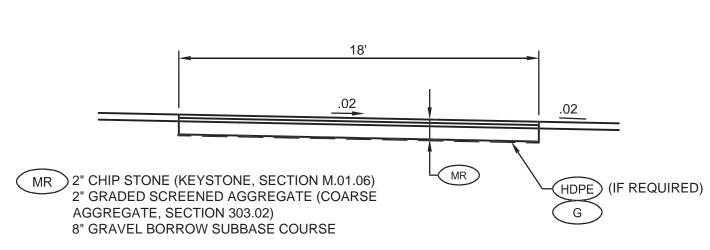
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NON-COMPLIANT SOIL MANAGEMENT LEGEND

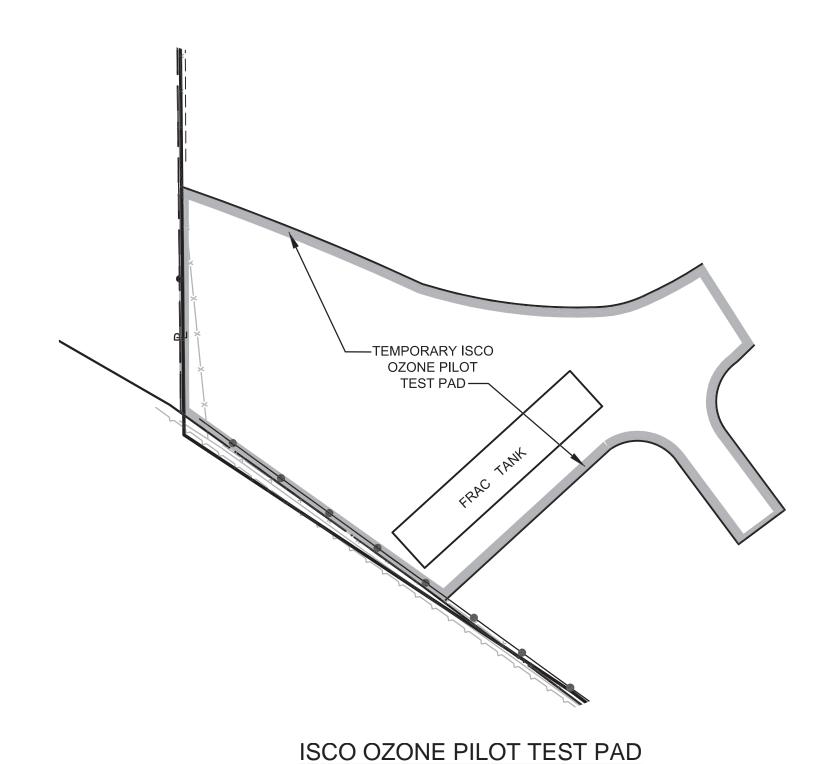
— IMPERMEABLE HDPE LAYER PERMEABLE GEOTEXTILE

AREA AVAILABLE TO PLACE TYPE 1B - SOIL



TEMPORARY GRAVEL ACCESS ROAD AND ISCO OZONE PILOT TEST PAD NOT TO SCALE

SEE SPECIFICATIONS FOR PERMEABLE GEOTEXTILE AND IMPERMEABLE HDPE LAYER REQUIREMENTS.



ISCO OZONE PILOT TEST PAD NOTE:

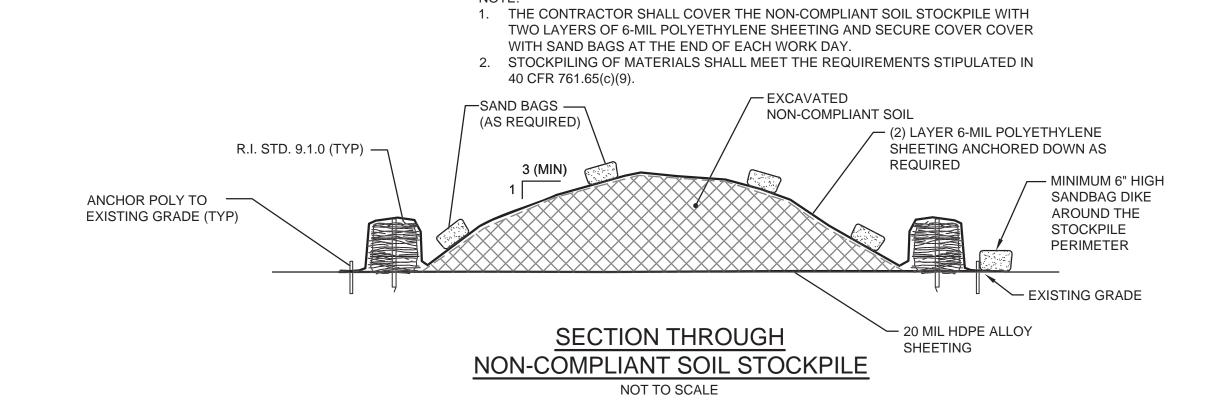
- 1. INSTALL ALL EROSION CONTROLS IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN. CLEAR AND GRUB AREA AS INDICATED ON THE CONTRACT DRAWINGS.
- 2. PROTECT, EXTEND AND/OR REMOVE MONITORING WELLS AS INDICATED AND IN ACCORDANCE WITH CONTRACT DRAWINGS, PLAN C-1.
- 3. PREPARE TEMPORARY PAD FOR FRACTIONATION TANK (GOUNDWATER EXPECTED DURING EXCAVATION OF NON-COMPLIANT SOILS). DEWATERING FLUIDS TO BE MANAGED IN ACCORDANCE WITH RIDEM REMEDIATION AND TSCA REGULATIONS.
- 4. EXCAVATE NON-COMPLIANT AND LOT BOUNDARY EXCAVATION WEDGE SOILS AND PLACE INTO DESIGNATED STOCKPILE AREA.
- 5. RESIDENT ENGINEER TO COLLECT POST EXCAVATION SAMPLES.
- 6. UPON RECEIPT OF COMPLIANT POST EXCAVATION DATA FROM RESIDENT ENGINEER, BACKFILL EXCAVATIONS TO FINAL SUBGRADE WITH APPROVED IMPORTED MATERIAL OR COMPLIANT ON-SITE FILL MATERIAL.
- 7. MARK OUT LIMITS OF PAD AS SHOWN ON CONTRACT DRAWINGS.
- 8. INSTALL ANY IMPERMEABLE HDPE LAYER / PERMEABLE GEOTEXTILE IN AREA OF PAD AS INDICATED ON PLAN C-6.
- 9. INSTALL PAD, AS INDICATED BY DETAILS SHOWN ON THIS SHEET. MATERIALS SHALL MEET THOSE REQUIREMENTS AS STIPULATED IN THE CONTRACT SPECIFICATIONS.
- 10. COMPACTION SHALL BE COMPLETED BY ROLLING EXCAVATOR OR UTILIZING COMPACTION EQUIPMENT TO ACHIEVE 95% PROCTOR.
- 11. AT THE CONCLUSION OF THE PILOT TEST THE PILOT TEST PAD MATERIAL LOCATED IN THE FLOODWAY SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH RIDEM HAZARDOUS WASTE / SOLID WASTE / UNIVERSAL WASTE AND TSCA REGULATIONS.
- 12. AT THE CONCLUSION OF THE PILOT TEST THE PILOT TEST PAD MATERIAL LOCATED IN ZONE AE SHALL REMAIN IN PLACE.

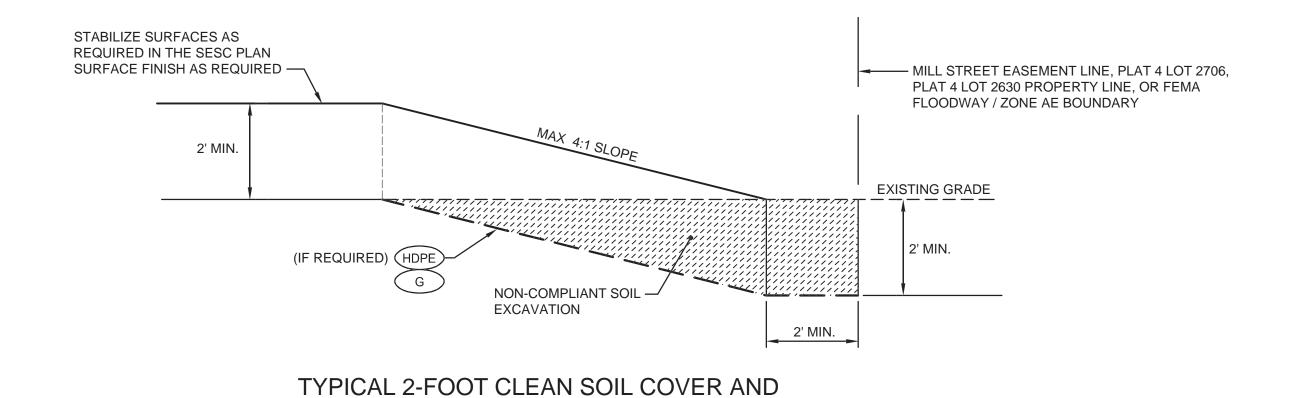
STABILIZE SURFACES AS REQUIRED IN THE SESC PLAN SURFACE FINISH AS REQUIRED PROPOSED GRADE _____EXISTING GRADE (HDPE) (IF REQUIRED) PCS BOT OF EXCAVATION (AS REQUIRED)

AREA OF NON-COMPLIANT EXCAVATION

NOT TO SCALE

SEE SPECIFICATIONS FOR PERMEABLE GEOTEXTILE AND IMPERMEABLE HDPE LAYER REQUIREMENTS.





LOT BOUNDARY EXCAVATION WEDGE (LBEW)

NOT TO SCALE

SOILS WITH PCBS > = 10 PPM - < = 25 — SEE SPECIFICATIONS FOR PPM NOT COVERED BY IMPERMEABLE HDPE LAYER CONCRETE REQUIREMENTS.

IMPERMEABLE HDPE LAYER INSTALLATION DETAIL

IMPERMEABLE HDPE -

LAYER LIMITS

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TAILS

PROJECT NO.: 1701

DATE: SEPTEMBER 1, 2017

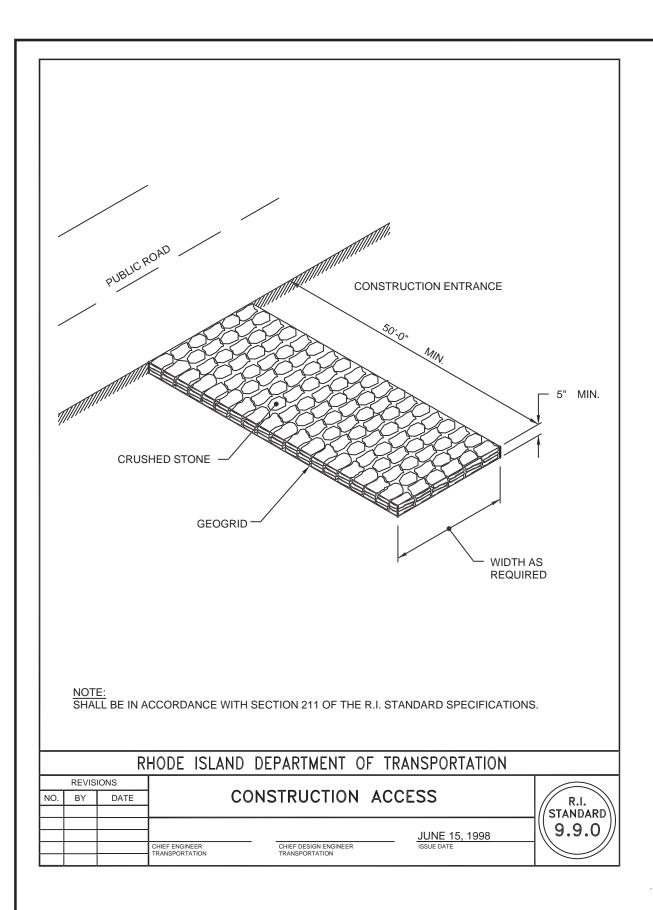
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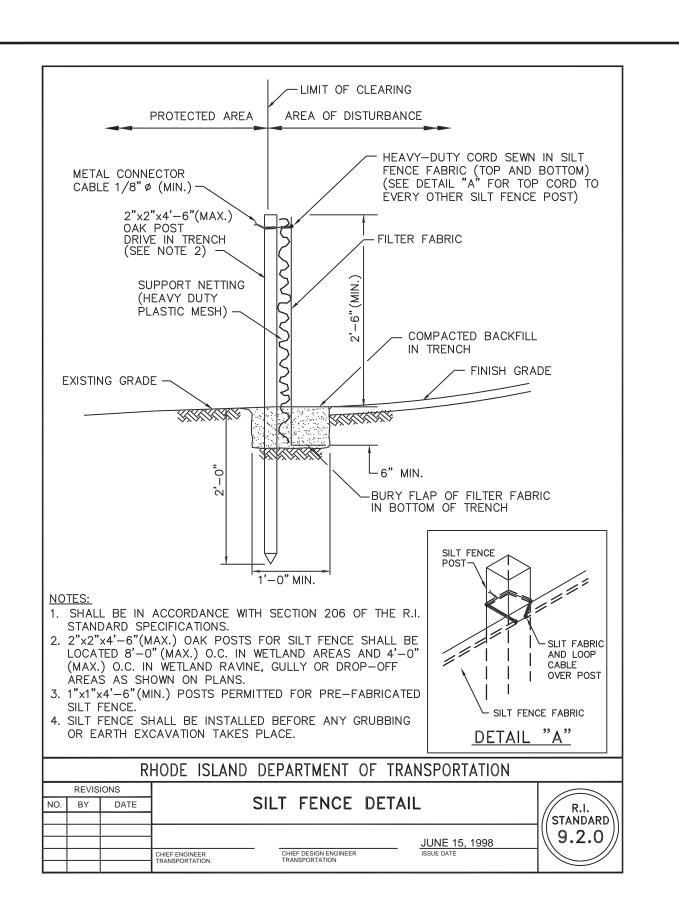
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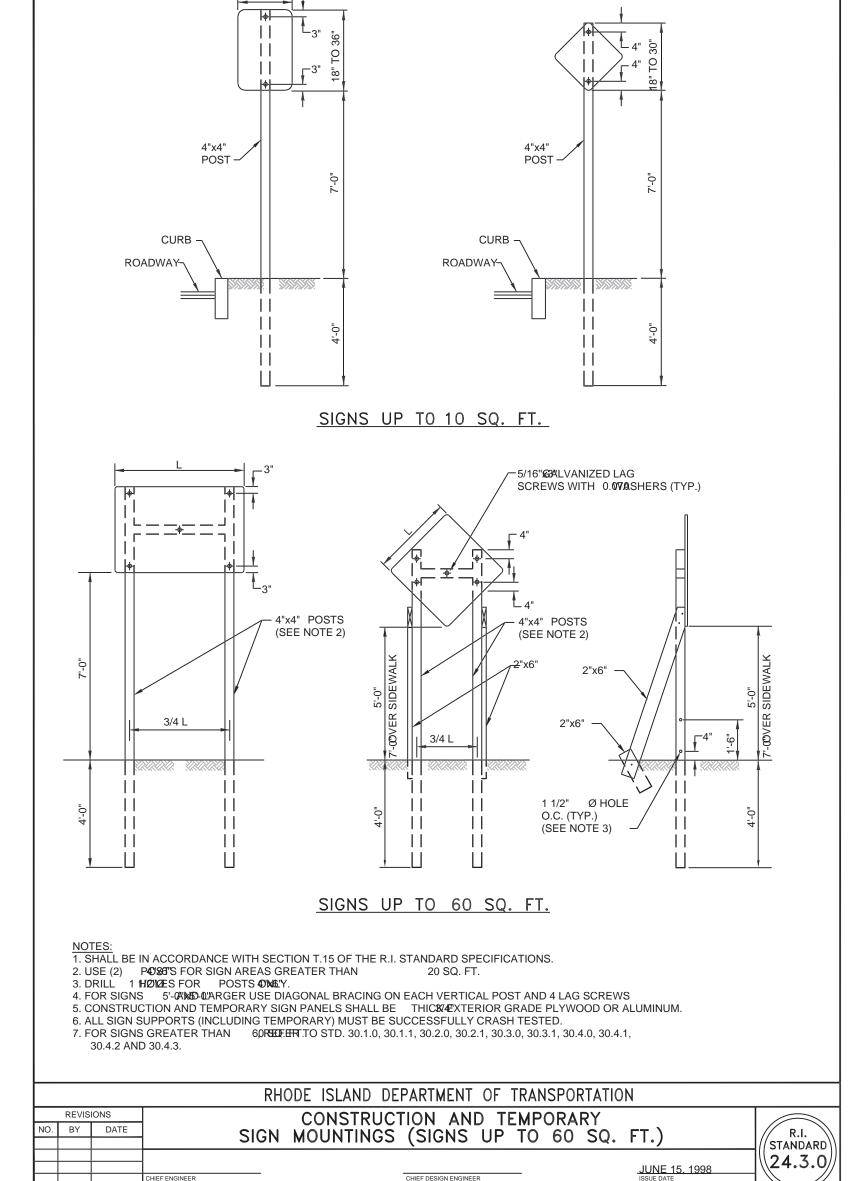
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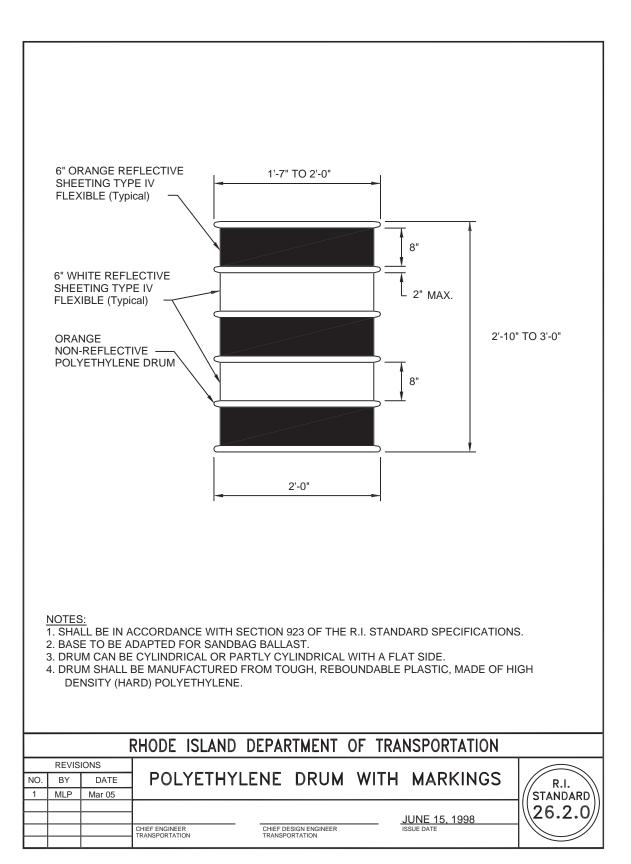
SHEET 9 OF 17

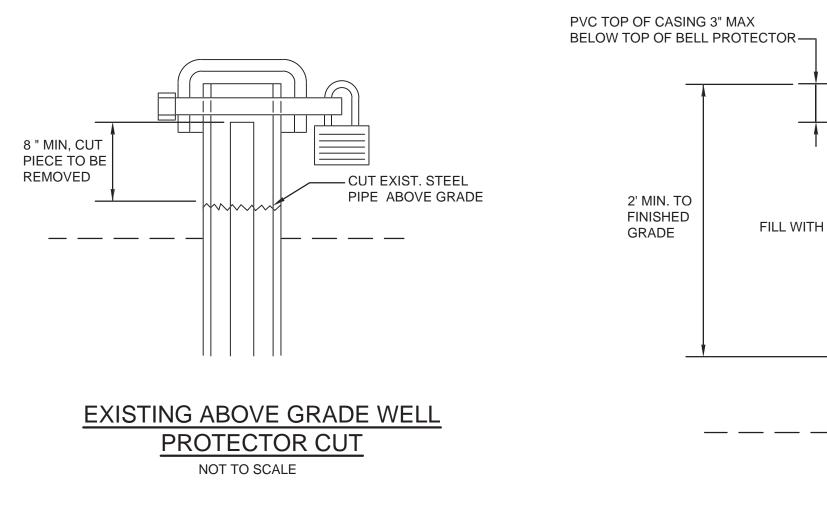
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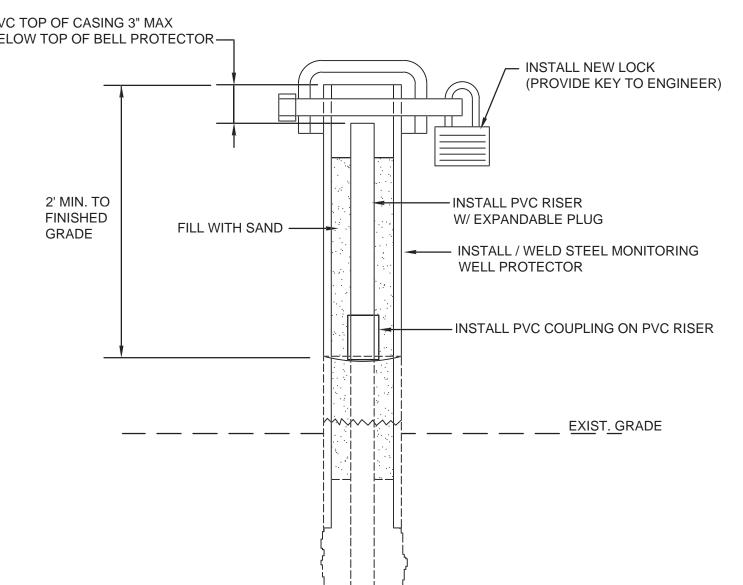






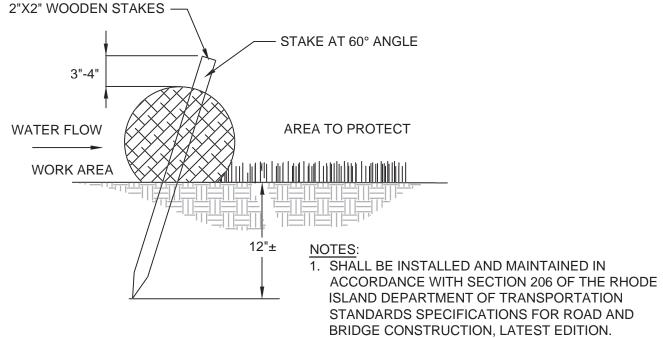


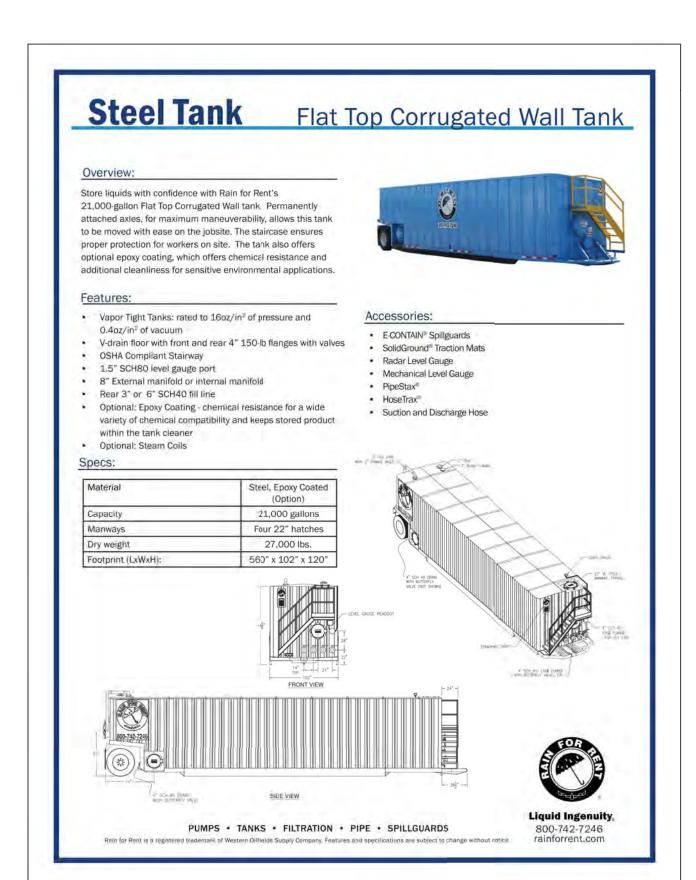




MONITORING WELL ABOVE GRADE PROTECTION EXTENSION DETAIL

NOT TO SCALE















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PROJECT NO.: 1701

DATE: SEPTEMBER 1, 2017

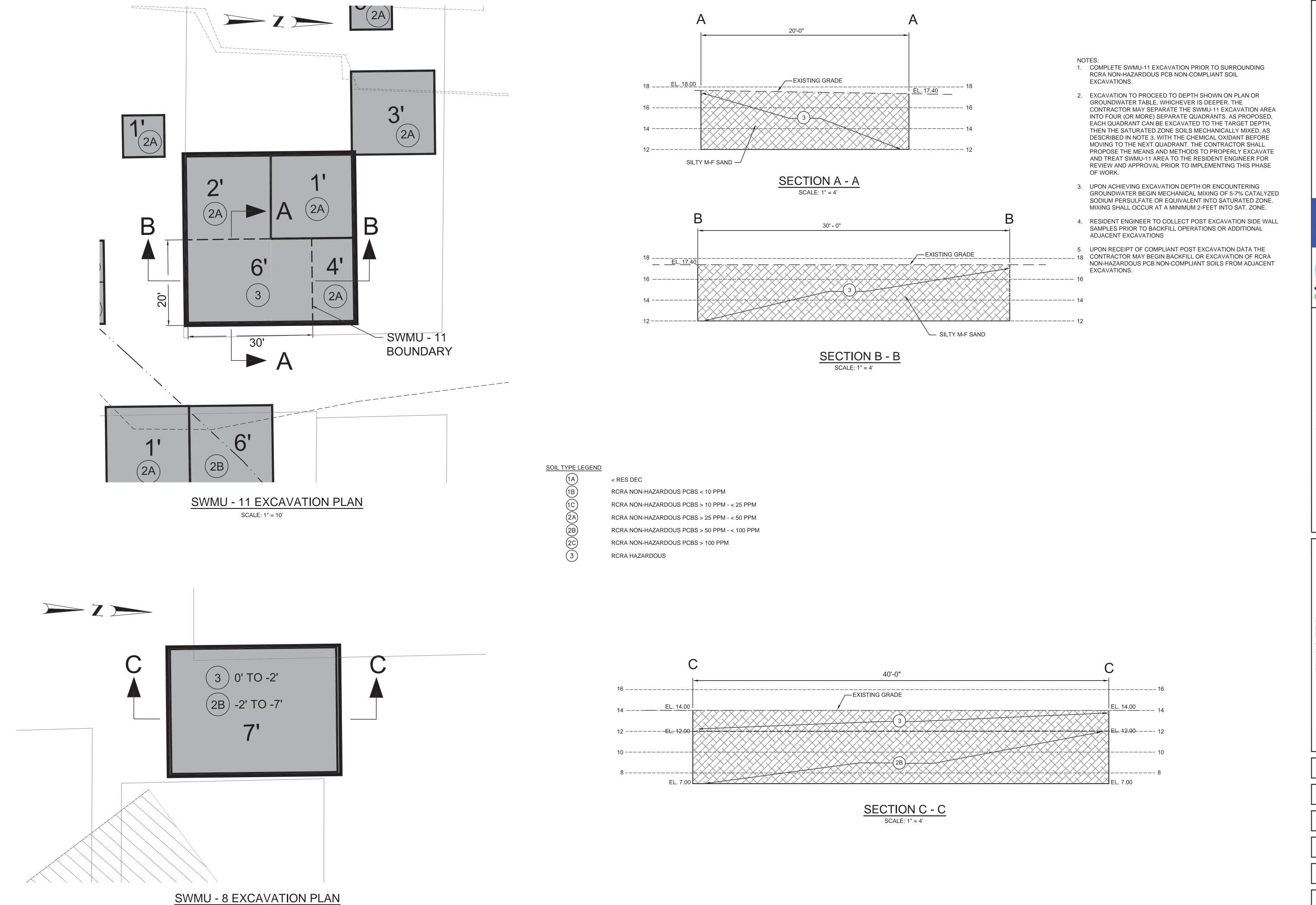
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DRAWING NUMBER

SHEET 10 OF 17



SCALE: 1" = 10'

EIG BASF FORMER CIBA-GEI FACILITY 180 MILL STREET CRANSTON, RHODE ISLA

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Consultants

12

PROJECT NO.: 1701

DATE: SEPTEMBER 1, 2017

SCALE: NONE

DRAWN BY: LBD

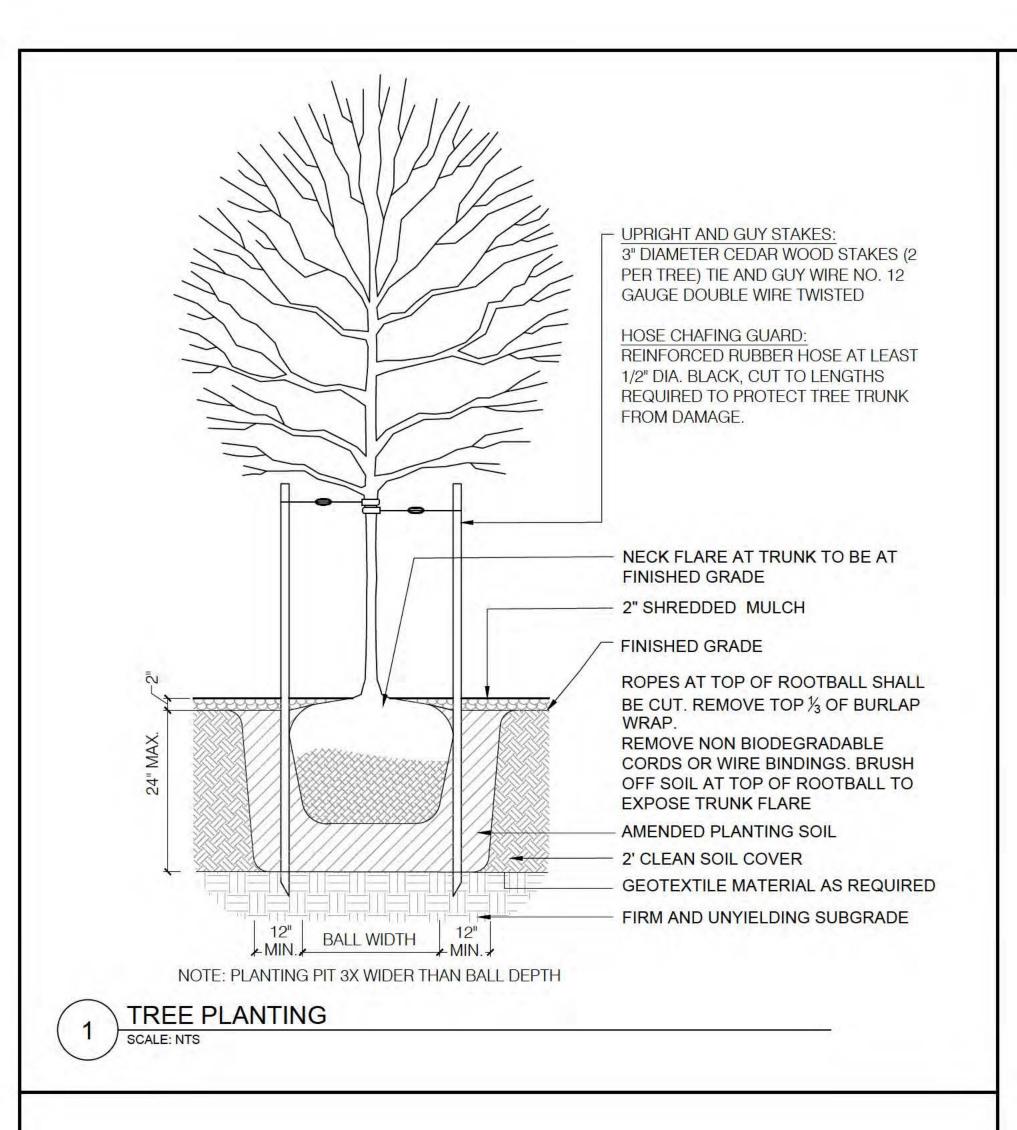
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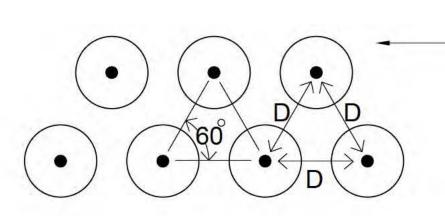
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SHEET 11 OF 17



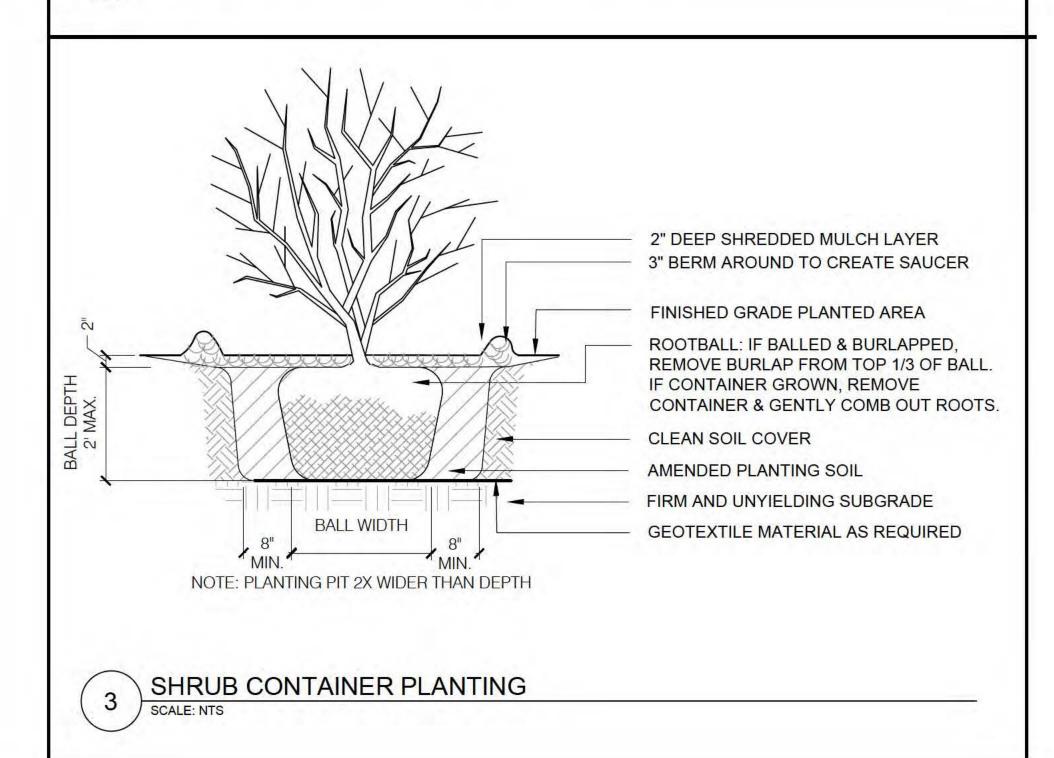
F.\FILES\CAD\1701\Landscape\Landscape\Landscape\Elements\5-9-19\1701-LANDSCAPE PLAN -tellc may 09 2019.dwg. 5/10/2019 1:36:





PLANT CENTER, TYP.
D= TYPICAL ON CENTER SPACING
AS INDICATED IN PLANT SCHEDULE

2 SHRUB AND HERBACEOUS PLANT SPACING
SCALE: NTS



GENERAL PLANTING NOTES:

- 1) Containerized shrubs will be planted as shown on plant schedule.
- 2) For containerized stock, all plants should be pre-inspected by the planting contractor to help ensure quality, proper hardening (2-week minimum), and species correctness. Any dead, dying, stressed, or badly "root-bound" plants will be rejected. Holes will be dug twice the width and equal to the depth of the root ball of the plant. Holes will be watered before planting, then filled, tamping down the soil to remove air pockets, and watered again immediately. Care should be taken to ensure that the installed containerized materials are not covered by mulch at the time of product application.
- 3) The seed should be applied through broadcast seeding, hand-raked to ½-to ½-inch depth to minimize seed loss, then surface-pressed through a water-filed press-wheel to facilitate good seed-to-soil contact. All seed must be labeled as 'certified' and should not include the presence of noxious or invasive species prohibited by the State of Rhode Island. All seed should be inspected prior to installation and all tags must be maintained for documentation by the resident engineer. Prior to delivery, seed should be processed by the seed provider on a "gravity-table" to remove non-target seed types and potentially invasive species. Seeding will only be performed between September 1 and when the ground freezes and when the ground thaws and June 1st.
- 4) No equipment will be allowed in the restoration area after seeding or planting.
- 5) Chemical and/or mechanical weed abatement should be facilitated by the client to assist in eradication of invasive and noxious weeds. The control of noxious and/or invasive species should be based upon site monitoring for a minimum of three-growing seasons following establishment. An iterative weed management plan should be implemented by the client based upon the results of monitoring.
- 6) Construction equipment, fuels, and other petroleum products shall not be stored or stockpiles with 50 feet of the creek or other aquatic habitats. Fueling should only occur within approved designated areas.

BASF FORMER CIBA-GEIGY FACILTY 180 MILL STREET CRANSTON, RHODE ISLAND





TER STREET, 5TH FLOOR
30STON, MA 02109

Gordon R. Archibald, Inc

DETAILS, NOTES,
EDULE
REVISIONS BY

NO. DATE REVISIONS

PROJECT NO.: 1701

DATE: FEBRUARY 2018

SCALE: AS NOTED

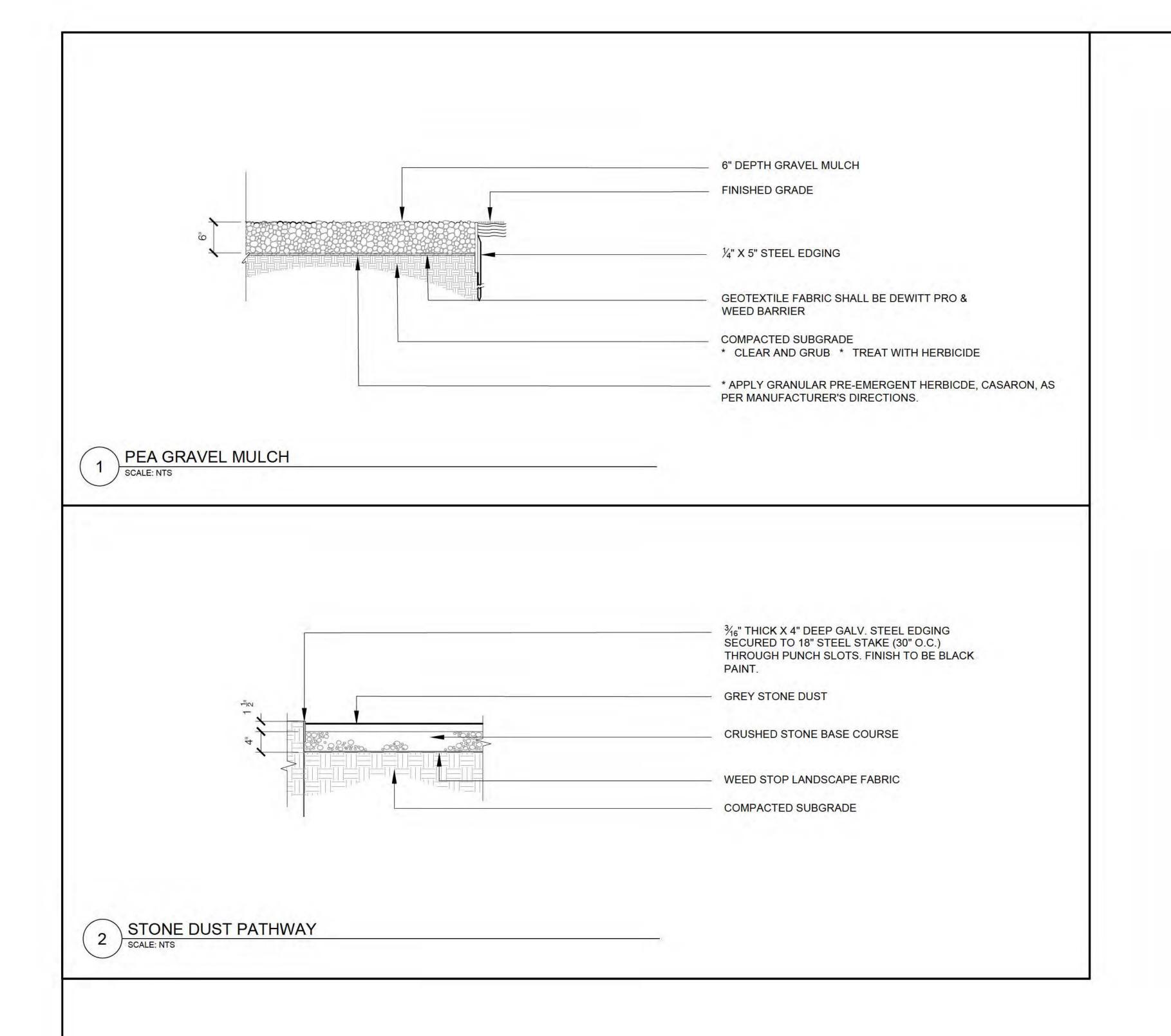
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CHECKED BY: LG

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SHEET X OF X



BASF FORMER CIBA-GEIGY FACILTY 180 MILL STREET CRANSTON, RHODE ISLAND □ ■ BASF
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AEI Consultants

AEI CONSULTANTS 12 WATER STREET, 5TH FLOOR BOSTON, MA 02109

PROJECT NO.: 1701

DATE: FEBRUARY 2018

CHECKED BY: LG

DRAWING NUMBER

SCALE: AS NOTED

DRAWN BY: MK



315 W 36th Street 10th Floor New York, NY 10018 T: (212) 579 6800 SHEET X OF X

MIX FOR INFILTRATION BASINS

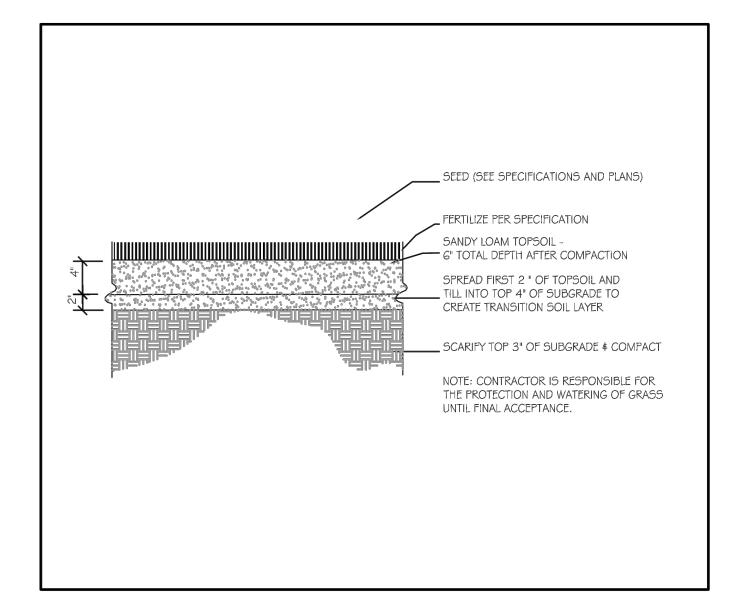
NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES - SPEC SHEET (PDF)

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE GENERALLY MOIST, RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN APPROPRIATE SEED MIX FOR ECOLOGICALLY SENSITIVE RESTORATIONS THAT REQUIRE STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION.

THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT HOLD STANDING WATER. MANY OF THE PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING. THE MIX MAY BE APPLIED BY HAND, BY MECHANICAL SPREADER, OR BY HYDRO-SEEDER. AFTER SOWING, LIGHTLY RAKE, ROLL OR CULTIPACK TO INSURE GOOD SEED TO SOIL CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING OR LATE SUMMER SEEDING. LATE FALL AND WINTER DORMANT SEEDING REQUIRES AN INCREASE IN THE APPLICATION RATE. A LIGHT MULCHING OF CLEAN, WEED-FREE STRAW IS RECOMMENDED.

APPLICATION RATE: 35 LBS/ACRE | 1250 SQ FT/LB PRICE: \$37.00/BULK POUND MINIMUM ORDER: 3 LBS

SPECIES: RIVERBANK WILD RYE (ELYMUS RIPARIUS), CREEPING RED FESCUE (FESTUCA RUBRA), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), BIG BLUESTEM (ANDROPOGON GERARDII), SWITCH GRASS (PANICUM VIRGATUM), UPLAND BENTGRASS (AGROSTIS PERENNANS), NODDING BUR MARIGOLD (BIDENS CERNUA), HOLLOW-STEM JOE PYE WEED (EUPATORIUM FISTULOSUM/EUTROCHIUM FISTULOSUM), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), BONESET (EUPATORIUM PERFOLIATUM), BLUE VERVAIN (VERBENA HASTATA), SOFT RUSH (JUNCUS EFFUSUS), WOOL GRASS (SCIRPUS CYPERINUS).



WILDFLOWER AND CONSERVATION SEED MIX NOT TO SCALE

RI STATE WILDFLOWER MIX

LEAVED COREOPSIS .5lbs STATE SPECS

58% LANCE

22% OXEYE

10% WHITE YARROW

SUSAN

10% BLACKED EYED

DAISY

F.5.2.2. BIORETENTION SOIL

THE SOIL SHOULD BE A UNIFORM MIX, FREE OF STONE, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES SHOULD BE MIXED OR DUPED WITH IN THE BIORETENTION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE BIORETENTION SOIL SHOULD BE FREE OF NOXIOUS WEEDS.

THE BIORETENTION SYSTEM SHALL UTILIZE PLANTING SOIL HAVING A COMPOSITION AS FOLLOWS:

SAND: 85 - 88% SOIL FINES: 8 TO 12% (NO MORE THAN 2% CLAY)

ORGANIC MATTER: 3 - 5%

*NOTE: FOR BIORETENTION APPLICATIONS WITH A SOIL DEPTH OF LESS THAN 4 FEET, ADD 20% (BY VOLUME) OF WELL AGED (3 MONTHS), WELL AERATED, LEAF COMPOST (OR APPROVED EQUIVALENT) TO THE ABOVE PLANTING SOIL MIXTURE. WHERE SOIL FINES CONTENT IS LESS THAN 12%, ADD A CORRESPONDING % OF LEAF COMPOST.

A TEXTURAL ANALYSIS IS REQUIRED TO ENSURE THE BIORETENTION SOIL MEET THE SPECIFICATION LISTED ABOVE. THE BIORETENTION SOIL SHOULD ALSO BE TESTED FOR THE FOLLOWING CRITERIA:

 $\begin{array}{lll} \text{PH RANGE} & 5.2 - 7.0 \\ \text{MAGNESIUM} & \text{NO TO EXCEED 32 PPM} \\ \text{PHOSPHORUS P}_2\text{O}_5 & \text{NOT TO EXCEED 69 PPM} \\ \text{POTASSIUM K}_2\text{O} & \text{NOT TO EXCEED 78 PPM} \\ \text{SOLUBLE SALTS} & \text{NOT TO EXCEED 500 PPM} \end{array}$

ALL BIORETENTION AREAS SHOULD HAVE A MINIMUM OF ONE TEST. EACH TEST SHOULD CONSIST OF BOTH THE STANDARD SOIL TEST FOR PH, PHOSPHORUS, AND POTASSIUM AND ADDITIONAL TESTS OF ORGANIC MATTER, AND SOLUBLE SALTS.

SINCE DIFFERENT LABS CALIBRATE THEIR TESTING EQUIPMENT DIFFERENTLY, ALL TESTING RESULTS SHOULD COME FROM THE SAME TESTING FACILITY.

SHOULD THE PH FALL OUT OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED (HIGHER) WITH LIME OR (LOWER) WITH IRON SULFATE PLUS SUI FUR

NEW ENGLAND WETLAND PLANTS, INC

PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM
New England Conservation/Wildlife Mix

Botanical Name	Common Name	Indicator
Elymus virginicus	Virginia Wild Rye	FACW-
Schizachyrium scoparium	Little Bluestem	FACU
Andropogon gerardii	Big Bluestem	FAC
Festuca rubra	Red Fescue	FACU
Sorghastrum nutans	Indian Grass	UPL
Panicum virgatum	Switch Grass	FAC
Chamaecrista fasciculata	Partridge Pea	FACU
Desmodium canadense	Showy Tick Trefoil	FAC
Asclepias tuberosa	Butterfly Milkweed	NI
Bidens frondosa	Beggar Ticks	FACW
Eupatorium purpureum (Eutrochium maculatum)	Purple Joe Pye Weed	FAC
Rudbeckia hirta	Black Eyed Susan	FACU-
Aster pilosus (Symphyotrichum pilosum)	Heath (or Hairy) Aster	UPL
Solidago juncea	Early Goldenrod	

The New England Conservation/Wildlife Mix provides a permanent cover of grasses, wildflowers, and legumes

For both good erosion control and wildlife habitat value. The mix is designed to be a no maintenance seeding, and is appropriate for cut and fill slopes, detention basin side slopes, and disturbed areas adjacent to commercial and residential projects.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the

mix will remain unchanged. Price is \$/bulk pound, FOB warehouse, Plus SH and applicable taxes.

INFILTRATION BASIN SEED MIX - APPLICATION RATE 3.5 PER 1,000 SF.

35% TURF TYPE TALL FESCUE 20% SMOOTH BROMEGRASS 30% CREEPING RED FESCUE 5% KENTUCKY BLUEGRASS 10% REDTOP □ - BASF

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EI CONSULTANTS
ER STREET, 5TH FLOOF
OSTON, MA 02109

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LANDSCAPE DETAILS 3

DATE

REVISIONS
5-09-19 SHEET REPLACED

PROJECT NO.: 1701

DATE: SEPTEMBER 1, 2017

SCALE: 1" = 20'

DRAWN BY: LBD

CHECKED BY: SPC

DRAWING NUMBER RL-4

SHEET 1 OF 4



